

Laser & Laser Optics

- 5W power meter from Thorlabs damaged. Thorlabs said they can repair it, so will be sending it back — Thorlabs doesn't have a good answer why we saw damage for 266 nm as that is well within limits. Total cost \$3000
- Purchasing a pyroelectric energy meter (\$2225) and hand-held meter (\$1500) from **Ophir Optics** that has high damage threshold 6 J/cm² — probably an overkill for 266 nm but wanted something that works for all frequencies.
- I contacted the Surelite folks about what they use and they sent me the same models as the one I noted with Ophir Optics (4 J/cm²) — same as the one we are currently borrowing from my colleague at LANL



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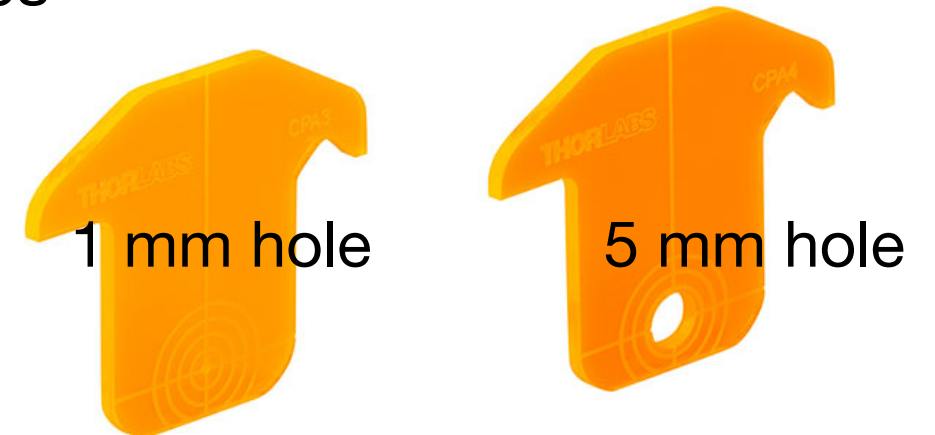
- Also purchasing some alignment tools from Thorlabs



Beam viewer cards (\$87)

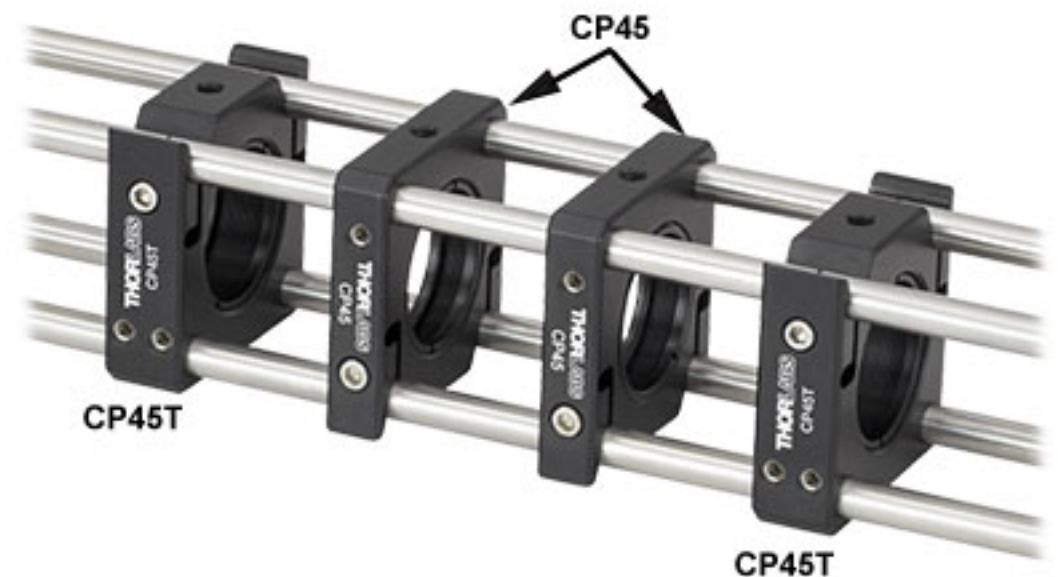


Fluorescing alignment disk (\$87)



Fluorescing alignment plates
(\$10 each)
Unclear of damage thresholds
but are cheap

- EKSMA mirror arrived here (need to check customs) — however wrong mirror so need to send back; correct ones will arrive soon
- An idea from John (laser expert here at LANL) to explore using a cage system for mounting our optics in the laser box rather than a bread board



Periscope Items

- Thermionics RNN-800 for the end-wall laser (\$12880) — order placed last week, lead time 10 weeks, expect in May
- Top Field Cage Translation stage — finalized 40 cm travel; waiting for a quote from Thermionics
- Need to finalize electrical break — will discuss today
- Elena working on planning
 - He Leak testing station at LANL (received info from LIP) — all parts largely identified, orders will go out soon
 - A smaller cryogenics test dewar (~40 inch height) with a basket for component testing such as PEEK materials. Finalizing components, will place orders soon — will be around \$5k

Cryogenics Test stand

- Platform Deck material ordered (\$3800)
- Rollable stairs ordered (\$1700)
- Order placed for the platform materials and sub-assemblies with HEITEK (\$35.5k) — receive end of April
- Now understanding costs on final assembly and anchoring of the structure to the floor from within LANL

